



IFW/AF
#

Dkt. 1747/55672-A-PCT-US/JPW/AJM/AG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gloria C. Li, et al.

Serial No.: 09/750,410

Filed : December 28, 2000

For : USES OF DNA-PK

1185 Avenue of the Americas
New York, New York 10036
September 29, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure under 37 C.F.R. §1.56, applicants direct the Examiner's attention to the following disclosures (**Exhibits 1-105**), which are listed on Form PTO-1449 (**Exhibit A**).

1. Amiel, J. et al., (1996), Heterozygous Endothelin Receptor B (EDNRB) Mutations In Isolated Hirschsprung Disease, *Human Molecular Genetics*, 5 (3), pp:355-357 (Exhibit 1);
2. Anderson, C.W., (1993), DNA Damage And The DNA-Activated Protein Kinase, *TIBS*, 18, pp:433-437 (Exhibit 2);
3. Angrist, M., et al., (1995), Mutation Analysis Of The RET Receptor Tyrosine Kinase In Hirschsprung Disease, *Human Molecular Genetics*, Vol. 4 (5), pp:821-830 (Exhibit 3);

10/06/2004 AWONDAF1 00000071 09750410

01 FC:1806

180.00 OP

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 2

4. Araki, R., et al, (1997), Nonsense Mutation At Tyr-4046 In The DNA-Dependent Protein Kinase Catalytic Subunit Of Server Combined Immune Deficiency Mice, *Proc. Natl. Acad. Sci. USA*, 94, pp:2438-2443 (Exhibit 4);
5. Attie, T., et al. (1995), Diversity Of RET Proto-Oncogene Mutations In Familial And Sporadic Hirschsprung Disease, *Human Molecular Genetics*, 4 (8), pp:1381-1386 (Exhibit 5);
6. Badner, J., et al., (1990), A Genetic Study of Hirschsprung Disease, *Am. J. Hum. Genet.*, 46, pp:568-580 (Exhibit 6);
7. Barlow, C., et al., (1996), Atm-Deficient Mice: A Paradigm of Ataxia Telangiectasia, *Cell*, 86, pp:179-171 (Exhibit 7);
8. Biederman, K., et al., (1991), *Scid* Mutation In Mice Confers Hypersensitivity To Ionizing Radiation And A Deficiency In DNA Double-Strand Break Repair, *Proc. Natl. Acad. Sci.*, 88, pp: 1394-1397 (Exhibit 8);
9. Bird, R., (1995), Role Of Aberrant Crypt Foci In Understanding The Pathogenesis Of Colon Cancer, *Cancer Letters*, 93, pp:55-71 (Exhibit 9);
10. Blunt, T., et al. (1995), Defective DNA-Dependent Protein Kinase Activity is Linked to V(D)J Recombination and DNA Repair Defects Associated With the Murine *scid* Mutation, *Cell*, 80, pp:813-823 (Exhibit 10);

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 3

11. Blunt, T., et al., (1996), Identification Of A Nonsense Mutation In The Carboxyl-Terminal Region Of DNA-Dependent Protein Kinase Catalytic Subunit In The *Scid* Mouse, *Proc. Natl. Acad. Sci.*, 93, pp:10285-10290 (Exhibit 11);
12. Boder, Elena, (1975), Ataxia-Telangiectasia: Some Historic, clinical and Pathologic Observations, *Birth Defects: Original Article Series*, XI, (1), pp: 255-270 (Exhibit 12);
13. Bogue, M., et al., (1996), Mechanism Of V(D)J Recombination, *Current Opinion in Immunology*, 8, pp: 175-180, (Exhibit 13);
14. Bogue, M., et al., (1996), P53 Is Required For Both Radiation-Induced Differentiation And Rescue Of V(D)J Rearrangement In *Scid* Mouse Thymocytes, *Genes & Development*, 10 pp:553-565 (Exhibit 14);
15. Bosma, G., et al., (1983), A Severe Combined Immunodeficiency Mutation In The Mouse, *Nature*, 301 (10), pp:527-530 (Exhibit 15);
16. Bosma, M.J., et al., (1991), THE SCID MOUSE MUTANT: Definition, Characterization, and Potential Uses, *Ann. Rev. Immunol.*, 9, pp: 323-50 (Exhibit 16);
17. Boubnov, N., et al., (1995), Complementation Of The Ionizing Radiation Sensitivity, DNA End Binding, And V(D)J

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 4

Recombination Defects Of Double-Strand Break Repair Mutants
By The P86 Ku Autoantigen, *Proc. Natl. Acad. Sci.*, 92, pp:
890-894 (Exhibit 17);

18. Cai, Q.Q., et al., (1994), Chromosomal Location And
Expression Of The Genes Coding For Ku P70 And P80 In Human
Cell Lines And Normal Tissues, *Cytogenet Cell Genet*, 65,
pp:221-227 (Exhibit 18);
19. Carroll, A.M., et al., (1989), Occurrence Of Mature B (IGM⁺,
B220⁺) And T (CD3⁺) Lymphocytes In Scid Mice, *Journal of
Immunology*, 143, pp: 1087-1093 (Exhibit 19);
20. Carroll, A.M., et al., (1991), T-Lymphocyte Development In
Scid Mice Is Arrested Shortly After The Initiation Of T-
Cell Receptor δ Gene Recombination, *Genes & Development*,
Vol. 5, pp:1357-1366 (Exhibit 20);
21. Carter, T., et al. (1990), A DNA-Activated Protein Kinase
From HeLa Cell Nuclei, *Molecular and Cellular Biology*,
10(12), pp:6460-6471 (Exhibit 21);
22. Chan, D.W., et al., (1996), The DNA-Dependent Protein
Kinase Is Inactivated By Autophosphorylation Of The
Catalytic Subunit, *Journal of Biological Chemistry*, 271
(15), pp:8939-8941 (Exhibit 22);
23. Chou, C.H., et al., (1992), Role Of A Major Autoepitope In

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 5

Forming The DNA Binding Site Of The p70 (Ku) Antigen, *J. Exp. Med.*, 175, pp:1677-1684 (Exhibit 23);

24. Cordon-Cardo, C., et al., (1994), Expression Of The Retinoblastoma Protein Is Regulated In Normal Human Tissue, *American Journal of Pathology*, 144, pp:500-510 (Exhibit 24);
25. Costa, T.E., et al., (1992), Chromosomal Position Of Rearranging Gene Segments Influences Allelic Exclusion In Transgenic Mice, *Proc. Natl. Acad. Sci.*, 89, pp:2205-2208 (Exhibit 25);
26. Custer, R.P., et al., (1985), Severe Combined Immunodeficiency (SCID) In The Mouse, *Am. J. Pathol.*, 120, pp:464-477 (Exhibit 26);
27. Dalbagni, G., et al., (1993), Molecular Genetic Alterations Of Chromosome 17 And P53 Nuclear Overexpression In Human Bladder Cancer, *Diagnostic Molecular Pathology*, 2(1), pp: 4-13 (Exhibit 27);
28. Danska, J.S., et al., (1994), Rescue Of T-Cell Specific V(D)J Recombination In SCID Mice By DNA-Damaging Agents, *Science*, 266, pp:450-455 (Exhibit 28);
29. Donehower, L., et al., (1992), Mice Deficient For P53 Are Developmentally Normal But Susceptible To Spontaneous

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 6

Tumors, *Nature*, 356, pp:215-221 (Exhibit 29);

30. Dvir, A., et al., (1992), Ku Autoantigen Is The Regulatory Component Of A Template-Associated Protein Kinase That Phosphorylates RNA Polymerase II, *Proc. Natl. Acad. Sci.*, 89, pp:11920-11924 (Exhibit 30);
31. Dyson, N., et al., (1989), The Human Papilloma Virus-16 E7 Oncoprotein Is Able To Bind To The Retinoblastoma Gene Product, *Science, New Series*, 243, pp:934-937 (Exhibit 31);
32. Edery, P., et al., (1996), Mutation Of The Endothelin-3 Gene In The Waardenburg-Hirschsprung Disease (Shah-Waardenburg Syndrome), *Nature Genetics*, 12, pp: 442-444 (Exhibit 32);
33. Fulop, G.M., et al., (1990), The Scid Mutation In Mice Causes A General Defect In DNA Repair, *Nature*, 347, pp:479-482 (Exhibit 33);
34. Gao, Y., et al., (1998), A Targeted DNA-Pkcs-Null Mutation Reveals DNA-PK-Independent Functions For KU In V(D)J Recombination, *Immunity*, 9, pp:367-376 (Exhibit 34);
35. Gonzalez-Zuleta, M., et al., (1995), Methylation Of The 5' CpG Island Of The P16/CDKN2 Tumor Suppressor Gene In Normal And Transformed Human Tissues Correlates With Gene Silencing, *Cancer Research*, 55, pp:4531-4535 (Exhibit 35);

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 7

36. Gottlieb, T.M., et al., (1993), The DNA-Dependent Protein Kinase: Requirement for DNA Ends And Association With Ku Antigen, *Cell*, 72, pp: 131-142 (Exhibit 36);
37. Gu, Y., et al., (1997), Growth Retardation and Leaky SCID Phenotype of Ku70-Deficient Mice, *Immunity*, 7, pp: 653-665 (Exhibit 37);
38. Hammarsten, O., et al., (1998), DNA-Dependent Protein Kinase: DNA Binding And Activation In The Absence Of Ku, *Proc. Natl. Acad. Sci.*, 95, pp:525-530 (Exhibit 38);
39. Hendrickson, E.A., et al., (1991), A Link Between Double-Strand Break-Related Repair And V(D)J Recombination: The Scid Mutation, *Proc. Natl. Acad. Sci.*, 88, pp:4061-4065 (Exhibit 39);
40. Hofstra, R., et al., (1996), A Homozygous Mutation In The Endothelin-3 Gene Associated With A Combined Waardenburg Type 2 And Hirschsprung Phenotype (Shah-Waardenburg Syndrome), *Nature Genetics*, 12, pp:445-447 (Exhibit 40);
41. Iliakis, G.E., et al., (1991), Detection Of DNA Double-Strand Breaks In Synchronous Cultures Of CHO Cells By Means Of Asymmetric Field Inversion Gel Electrophoresis, *Int. J. Radiat. Biol.*, 59(2), pp:321-341 (Exhibit 41);
42. Jacks, T., (1994), Tumor Spectrum Analysis In P53-Mutant

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 8

Mice, *Current Biology*, 4(1), pp: 1-7 (Exhibit 42)

43. Jackson, S.P., et al., (1995), DNA Double-Strand Break Repair And V(D)J Recombination: Involvement Of DNA-PK, *TIBS*, 20, pp:412-415 (Exhibit 43);
44. Jeggo, P.A., et al., (1995), Menage A Trois: Double Strand Break Repair, V(D)J Recombination And DNA-PK, *BioEssays*, 17 (11), pp:949-957 (Exhibit 44);
45. Jhappan, C., et al., (1997), DNA-Pkcs: A T-Cell Tumour Suppressor Encoded At The Mouse *Scid* Locus, *Nature Genetics*, 17, pp:483-486 (Exhibit 45);
46. Kim, D., et al., (1995), A Constitutive Heat Shock Element-Binding Factor Is Immunologically Identical To The Ku Autoantigen, *Journal of Biological Chemistry*, 270, pp:15277-15284 (Exhibit 46);
47. Kinzler, K.W., et al., (1996), Lessons From Hereditary Colorectal Cancer, *Cell*, 87, pp:159-170 (Exhibit 47);
48. Kirchgessner, C.U., et al. (1995), DNA-dependent Kinase (p350) As A Candidate Gene For The Murine SCID Defect, *Science*, 267, pp:1178-1183 (Exhibit 48);
49. Lees-Miller, S.P., et al., (1995), Absence Of P350 Of DNA-Activated Protein From A Radiosensitive Human Cell Line,

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 9

Science, 267, pp:1183-1185 (Exhibit 49);

50. Lees-Miller, S.P., et al., (1996), The DNA-Dependent Protein Kinase, DNA-PK: 10 Years And No Ends In Sight, *Biochem. Cell Biol.*, 74, pp:503-512 (Exhibit 50);
51. Li, G.C., et al., (1998) Ku70: A Candidate Tumor Suppressor Gene For Murine T Cell Lymphoma, *Molecular Cell*, 2, pp:1-8 (Exhibit 51);
52. Li, Z., et al., (1995) The XRCC4 Gene Encodes A Novel Protein Involved In DNA Double-Strand Break Repair And V(D)J Recombination, *Cell*, 83, pp:1079-1089 (Exhibit 52);
53. Liang, F., et al., (1996), Ku80-deficient Cells Exhibit Excess Degradation Of Extrachromosomal DNA, *Journal of Biological Chemistry*, 271(24), pp:14405-14411 (Exhibit 53);
54. Lieber, M.R., et al., (1998), The Defect In Murine Severe Combined Immune Deficiency: Joining Of Signal Sequences But Not Coding Segments In V(D)J Recombination, *Cell*, 55, pp: 7-16 (Exhibit 54);
55. Linzer, D.I.H., et al. (1979), Characterization OF A 54k Dalton Cellular Sv40 Tumor Antigen Present IN Sv40-Transformed Cells AND Uninfected Embryonal Carcinoma Cells, *Cell*, 17, pp:43-52 (Exhibit 55);

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 10

56. Little, J.B., (1979), Quantitative Studies of Radiation Transformation with the A31-11 Mouse BALB/3T3 Cell Line, *Cancer Research*, 39, pp:1474-1480 (Exhibit 56);
57. Loda, M., et al., (1997), Increased Proteasome-Dependent Degradation Of The Cyclin Dependent Kinase Inhibitor P27 In Aggressive Colorectal Carcinomas, *Nature Medicine*, 3(2), pp:231-234 (Exhibit 57);
58. Macpherson, I., (1973), Soft Agar Techniques. In *Tissue Culture Methods And Applications*, P.F. Kruse Jr. eds. (New York Academic Press) Chapter 7, pp:276-280 (Exhibit 58);
59. Merlo, A., (1995), 5' Cpg Island Methylation Is Associated With Transcriptional Silencing Of The Tumour Suppressor P16/CDKN2/MTS1 In Human Cancers, *Nature Medicine*, (7), pp:686-692 (Exhibit 59);
60. Mimori, T., et al., (1981), Characterization Of A High Molecular Weight Acidic Nuclear Protein Recognized By Autoantibodies In Sera From Patients With Polymyositis-Scleroderma Overlap, *J. Clin. Invest.*, 68, pp:611-620 (Exhibit 60);
61. Moen, C.J.A., et al., (1996), Different Genetic Susceptibility To Aberrant Crypts And Colon Adenomas In Mice, *Cancer Research*, 56, pp:2382-2386 (Exhibit 61);

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 11

62. Nagasawa, H., et al. (1979) Effect Of Tumor Promoters, Protease Inhibitors, And Repair Processes On X-Ray-Induced Sister Chromatid Exchanges In Mouse Cells, *Proc. Natl. Acad. Sci.*, 76, pp:1943-1947 (Exhibit 62);
63. Nagasawa, H., et al., (1991), Response Of X-Ray-Sensitive CHPO Mutant Cells (xrs-6c) To Radiation, *Radiation Research*, 126, pp:280-288 (Exhibit 63);
64. Nagasawa, H., et al., (1987), Spontaneous Transformation To Anchorage-Independent Growth Of A Xeroderma Pigmentosum Fibroblast Cell Strain, *The Society for Investigative Dermatology, Inc.*, 88, pp:149-153 (Exhibit 64);
65. Nussenzweig, A., et al., (1996), Requirement For Ku80 In Growth And Immunoglobulin V(D)J Recombination, *Nature*, 382, pp:551-555 (Exhibit 65);
66. Orita, M., et al. (1989), Detection Of Polymorphisms Of Human DNA By Gel Electrophoresis As Single-Strand Conformation Polymorphisms, *Proc. Natl. Acad. Sci.*, 86, pp:2766-2770 (Exhibit 66);
67. Ouyang, H., Et Al. (1997), Ku70 Is Required For DNA Repair But Not For T Cell Antigen Receptor Gene Recombination In Vivo, *J. Exp. Med.*, 186, pp:921-929 (Exhibit 67);
68. Pan, Z.Q., et al., (1994), Phosphorylation Of The P34

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 12

Subunit Of Human Single-Stranded-DNA Binding Protein In Cyclin A-Activated G₁ Extracts Is Catalyzed By Cdk-Cyclin A Complex And DNA-Dependent Protein Kinase, *Proc. Natl. Acad. Sci.*, 91, pp:8343-8347 (Exhibit 68);

69. Pavan, W.J., et al., (1995), A High-Resolution Linkage Map Of The Lethal Spotting Locus: A Mouse Model For Hirschsprung Disease, *Mammalian Genome*, 6, pp:1-7 (Exhibit 69);
70. Pergola, F., et al. (1993), V(D)J Recombination In Mammalian Cell Mutants Defective In DNA Double-Strand Break Repair, *Molecular and Cellular Biology*, 13(6), pp:3464-3471 (Exhibit 70);
71. Perry, P., et al., (1974), New Giemsa Method For The Differential Staining Of Sister Chromatids, *Nature*, 251, pp: 156-158 (Exhibit 71);
72. Peterson, S.R. et al., (1997), Characterization of Two DNA Double-stranded Break Repair-Deficient Cell Lines That Express Inactive DNA-dependent Protein Kinase Catalytic Subunits, 272 (15), pp:10227-10231 (Exhibit 72);
73. Peterson, S.R., et al., (1995), Loss Of The Catalytic Subunit Of The DNA-Dependent Protein Kinase In DNA Double-Strand-Break-Repair Mutant Mammalian Cells, *Proc. Natl. Acad. Sci.*, 92, pp:3171-3174 (Exhibit 73);

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 13

74. Peterson, S.R., et al., (1995), Stimulation Of The DNA-Dependent Protein Kinase By RNA Polymerase II Transcriptional Activator Proteins, *J. Bio. Chemistry*, 270(3), pp:1449-1454 (Exhibit 74);
75. Pingault, V., et al., (1997), Human Homology And Candidate Genes For The Dominant Megacolon Locus, A Mouse Model Of Hirschsprung Disease, *Genomics*, 39, pp:86-89 (Exhibit 75);
76. Ponce-Castaneda, M., et al., (1995), p27^{kip1}: Chromosomal Mapping To 12p12-12p13.1 And Absence Of Mutations In Human Tumors, *Cancer Research*, 55, pp:1211-1214 (Exhibit 76);
77. Porter, P.L., et al., (1997), Expression Of Cell-Cycle Regulators P27^{kip1} And Cyclin E, Alone And In Combination, Correlate With Survival In Young Breast Cancer Patients, *Nature Medicine*, 3(2), pp:222-225 (Exhibit 77);
78. Purdie, C.A., et al., (1994), Tumour Incidence, Spectrum And Ploidy In Mice With A Large Deletion In The P53 Gene, *Oncogene*, 9, pp: 603-609 (Exhibit 78);
79. Rathmell, W.K., et al. (1994), Involvement Of The Ku Autoantigen In The Cellular Response To DNA Double-Strand Breaks, *Proc. Natl. Acad. Sci.*, 91, pp:7623-7627 (Exhibit 79);
80. Roncucci, L., et al., (1993), Cell Kinetic Evaluation Of

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 14

Human Colonic Aberrant Crypts, *Cancer Research*, 53,
pp:3726-3729 (Exhibit 80);

81. Roth, D.B., et al., (1993), Characterization Of Broken DNA Molecules Associated With V(D)J Recombination, *Proc. Natl. Acad. Sci. USA*, 90, pp:10788-10792 (Exhibit 81);
82. Roth, D.B., et al., (1995), How To Make Ends Meet, *Current Biology*, 5, pp:496-499 (Exhibit 82);
83. Sanger, F., et al., (1977), DNA Sequencing With Chain-Terminating Inhibitors, *Proc. Natl. Acad. Sci.*, 74 (12), pp:5463-5467 (Exhibit 83)
84. Sarnow, P., et al., (1982), Adenovirus Elb-58kd Tumor Antigen And Sv40 Large Tumor Antigen Are Physically Associated With The Same 54 Kd Cellular Protein In Transformed Cells, *Cell*, 28, pp:387-394 (Exhibit 84);
85. Serrano, M., et al., (1996), Role of the INK4a Locus in Tumor Suppression and Cell Mortality, *Cell*, 85, pp:27-37 (Exhibit 85);
86. Sipley, J.D., et al., (1995), Gene For The Catalytic Subunit Of The Human DNA-Activated Protein Kinase Maps To The Site Of The XRCC7 Gene On Chromosome 8, *Proc. Natl. Acad. Sci.*, 92, pp:7515-7519 (Exhibit 86);
87. Smider, V., et al., (1994), Restoration Of X-Ray Resistance

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 15

And V(D)J Recombination In Mutant Cells By Ku cDNA,
Science, 266, pp:288-291 (Exhibit 87);

88. Smith, C.A., et al., (1989), Antibodies To CD3/T-Cell Receptor Complex Induce Death By Apoptosis In Immature T Cells In Thymic Cultures, *Nature*, 337, pp:181-184 (Exhibit 88);
89. Southard-Smith, E.M., et al., (1998), Sox10 Mutation Disrupts Neural Crest Development In Dom Hirschsprung Mouse Model, *Nature Genetics*, 18, pp:60-64 (Exhibit 89);
90. Strasser, A., et al., (1994), Bcl-2 Expression Promotes B- But Not T-Lymphoid Development In Scid Mice, *Nature*, 368, pp:457-460 (Exhibit 90);
91. Suwa, A., et al., (1994), DNA-Dependent Protein Kinase (Ku Protein-P350 Complex) Assembles On Double-Stranded DNA, *Proc. Natl. Acad. Sci. USA*, 91, pp:6904-6908 (Exhibit 91);
92. Taccioli, G., et al. (1994), Ku80: Product Of The XRCC5 Gene And Its Role In DNA Repair And V(D)J Recombination, *Science*, Vol. 265, pp: 1442-1445 (Exhibit 92);
93. Taccioli, G., et al., (1993), Impairment Of V(D)J Recombination In Double-Strand Break Repair Mutants, *Science*, 260, pp:207-210 (Exhibit 93);

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 16

94. Taccioli, G., et al., (1998), Targeted Disruption Of The Catalytic Subunit Of The DNA-PK Gene In Mice Confers Severe Combined Immunodeficiency And Radiosensitivity, *Immunity*, 9, pp:355-366 (Exhibit 94);
95. Takiguchi, Y., et al., (1996), Genomic Structure And Chromosomal Assignment Of The Mouse Ku70 Gene, *Genomics*, 35, pp:129-135 (Exhibit 95);
96. Thompson, L.H., (1995), Nomenclature Of Human Genes Involved In Ionizing Radiation Sensitivity, *Mutation Research*, 337, pp:131-134 (Exhibit 96);
97. Tsukada, T., et al. (1993), Enhanced Proliferative Potential In Culture Of Cells From P53-Deficient Mice, *Oncogene*, 8, pp:3313-3323 (Exhibit 97);
98. Van Zant, G., et al., (1983), The Effect Of Hyperthermia On Hemopoietic Progenitor Cells Of The Mouse, *Radiation Research*, 95, pp:142-149 (Exhibit 98);
99. Vogelstein, B., et al., (1993), The Multistep Nature Of Cancer, *TIG*, 9, pp:138-141, (Exhibit 99);
100. Weaver, D.T., et al., (1995), What To Do At An End: DNA Double-Strand-Break Repair, *TIG*, 11, pp:388-392 (Exhibit 100);

Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 17

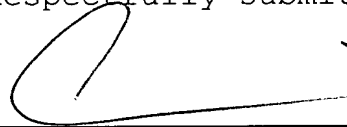
101. Werness, B.A., et al., (1989), Association Of Human Papillomavirus Types 16 And 18 E6 Proteins With P53, *Science*, 248, pp:76-79 (Exhibit 101);
102. Whyte, P., et al., (1988), Association Between An Oncogene And An Anti-Oncogene: The Adenovirus E1A Proteins Bind To The Retinoblastoma Gene Product, *Nature*, 334 (14), pp:124-129 (Exhibit 102);
103. Yaneva, M., et al., (1997), Interaction Of DNA-Dependent Protein Kinase With DNA And With Ku: Biochemical And Atomic-Force Microscopy Studies, *The EMBO Journal*, 16, pp:5098-5112 (Exhibit 103);
104. Yumoto, Y., et al., (1998), High Mobility Group Proteins 1 And 2 Can Function As DNA-Binding Regulatory Components For DNA-Dependent Protein Kinase *In Vitro*, *J. Biochem.*, 124, pp:519-527 (Exhibit 104); and
105. Zhu, C., et al., (1996), Ku86-Deficient Mice Exhibit Severe Combined Immunodeficiency And Defective Processing Of V(D)J Recombination Intermediates, *Cell*, Vol. 86, pp:379-389 (Exhibit 105).

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone them at the number provided below.

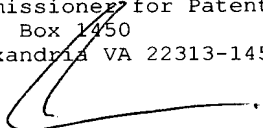
Applicants: Gloria C. Li et al.
Serial No.: 09/750,410
Filed : December 28, 2000
Page 18

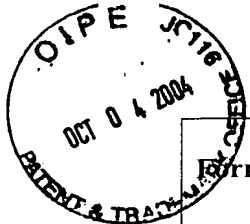
No fee, other than the \$180.00 fee pursuant to 37 C.F.R. \$1.97(c)(2), is deemed necessary in connection with the filing of this Supplemental Information Disclosure Statement. However, if any additional fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125.

Respectfully submitted,



John P. White
Registration No. 28,678
Alan J. Morrison
Registration No. 37,399
Attorney for Applicants
Cooper & Dunham LLP
1185 Avenue of the Americas
New York, NY 10036
(212) 278-0400

I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Alan J. Morrison
Reg. No. 37,399
9/29/09
Date



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Amiel, J. et al., (1996), Heterozygous Endothelin Receptor B (EDNRB) Mutations In Isolated Hirschsprung Disease, <i>Human Molecular Genetics</i> , 5 (3), pp:355-357 (Exhibit 1)
	Anderson, C.W., (1993), Dna Damage And The Dna-Activated Protein Kinase, <i>Tibs</i> , 18, pp:433-437 (Exhibit 2)
	Angrist, M., et al., (1995), Mutation Analysis Of The RET Receptor Tyrosine Kinase In Hirschsprung Disease, <i>Human Molecular Genetics</i> , Vol. 4 (5), pp:821-830 (Exhibit 3)
	Araki, R., et al., (1997), Nonsense Mutation At Tyr-4046 In The DNA-Dependent Protein Kinase Catalytic Subunit Of Server Combined Immune Deficiency Mice, <i>Proc. Natl. Acad. Sci. USA</i> , 94, pp:2438-2443 (Exhibit 4)
	Attie, T., et al., (1995), Diversity Of RET Proto-Oncogene Mutations In Familial And Sporadic Hirschsprung Disease, <i>Human Molecular Genetics</i> , 4 (8), pp:1381-1386 (Exhibit 5)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 1747/55672-A-PCT-US		Serial No. 09/750,410		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant(s) Gloria C. Li et al.				
				Filing Date December 28, 2000		Group Art Unit		
U.S. PATENT DOCUMENTS								
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
FOREIGN PATENT DOCUMENTS								
Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation	
							Yes	No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
		Badner, J., et al., (1990), A Genetic Study Of Hirschsprung Disease, <i>Am. J. Hum. Genet.</i> , 46, pp:568-580 (Exhibit 6)						
		Barlow, C., et al., (1996), Atm-Deficient Mice: A Paradigm Of Ataxia Telangiectasia, <i>Cell</i> , 86, pp:179-171 (Exhibit 7)						
		Biederman, K., et al., (1991), Scid Mutation In Mice Confers Hypersensitivity To Ionizing Radiation And A Deficiency In DNA Double-Strand Break Repair, <i>Proc. Natl. Acad. Sci.</i> , 88, pp: 1394-1397 (Exhibit 8)						
		Bird, R., (1995), Role Of Aberrant Crypt Foci In Understanding The Pathogenesis Of Colon Cancer, <i>Cancer Letters</i> , 93, pp:55-71 (Exhibit 9)						
		Blunt, T., et al., (1995), Defective DNA-Dependent Protein Kinase Activity Is Linked To V(D)J Recombination And DNA Repair Defects Associated With The Murine Scid Mutation, <i>Cell</i> , 80, pp:813-823 (Exhibit 10)						
EXAMINER				DATE CONSIDERED				



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Blunt, T., et al., (1996), Identification Of A Nonsense Mutation In The Carboxyl-Terminal Region Of DNA-Dependent Protein Kinase Catalytic Subunit In The Scid Mouse, <i>Proc. Natl. Acad. Sci.</i> , 93, pp:10285-10290 (Exhibit 11)
	Boder, Elena (1975), Ataxia-Telangiectasia: Some Historic, Clinical And Pathologic Observations,-- <i>Birth Defects: Original Article Series</i> , XI, (1), pp: 255-270 (Exhibit 12)
	Bogue, M., et al., (1996), Mechanism Of V(D)J Recombination, <i>Current Opinion In Immunology</i> , 8, pp: 175-180, (Exhibit 13)
	Bogue, M., et al., (1996), P53 Is Required For Both Radiation-Induced Differentiation And Rescue Of V(D)J Rearrangement In Scid Mouse Thymocytes, <i>Genes & Development</i> , 10 pp:553-565 (Exhibit 14)
	Bosma, G., et al., (1983), A Severe Combined Immunodeficiency Mutation In The Mouse, <i>Nature</i> , 301 (10), pp:527-530 (Exhibit 15)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

**U.S. Department of Commerce
Patent and Trademark Office**
Atty. Docket No.
1747/55672-A-PCT-
US

Serial No.
09/750,410

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Applicant(s)
Gloria C. Li et al.

Filing Date
December 28, 2000
Group Art Unit**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Bosma, M.J., et al., (1991), THE SCID MOUSE MUTANT: Definition, Characterization, And Potential Uses, <i>Ann. Rev. Immunol.</i> , 9, pp: 323-50 (Exhibit 16)
	Boubnov, N., et al., (1995), Complementation Of The Ionizing Radiation Sensitivity, DNA End Binding, And V(D)J Recombination Defects Of Double-Strand Break Repair Mutants By The P86 Ku Autantigen, <i>Proc. Natl. Acad. Sci.</i> , 92, pp: 890-894 (Exhibit 17)
	Cai, Q.Q., et al., (1994), Chromosomal Location And Expression Of The Genes Coding For Ku P70 And P80 In Human Cell Lines And Normal Tissues, <i>Cytogenet Cell Genet</i> , 65, pp:221-227 (Exhibit 18)
	Carroll, A.M., et al., (1989), Occurrence Of Mature B (IGM, B220) And T (CD#) Lymphocytes In Scid Mice, <i>Journal Of Immunology</i> , 143, pp: 1087-1093 (Exhibit 19)
	Carroll, A.M., et al., (1991), T-Lymphocyte Development In Scid Mice Is Arrested Shortly After The Initiation Of T-Cell Receptor Δ Gene Recombination, <i>Genes & Development</i> , Vol. 5, pp:1357-1366 (Exhibit 20)

EXAMINER**DATE CONSIDERED**

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No. 1747/55672-A-PCT-US	Serial No. 09/750,410
	Applicant(s) Gloria C. Li et al.	
	Filing Date December 28, 2000	Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

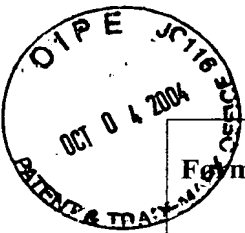
Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Carter, T., et al., (1990), A DNA-Activated Protein Kinase From Hela Cell Nuclei, <i>Molecular And Cellular Biology</i> , 10(12), pp:6460-6471 (Exhibit 21)
	Chan, D.W., et al., (1996), The DNA-Dependent Protein Kinase Is Inactivated By Autophosphorylation Of The Catalytic Subunit, <i>Journal Of Biological Chemistry</i> , 271 (15), pp:8939-8941 (Exhibit 22)
	Chou, C.H., et al., (1992), Role Of A Major Autoepitope In Forming The DNA Binding Site Of The P70 (Ku) Antigen, <i>J. Exp. Med.</i> , 175, pp:1677-1684 (Exhibit 23)
	Cordon-Cardo, C., et al., (1994), Expression Of The Retinoblastoma Protein Is Regulated In Normal Human Tissue, <i>American Journal Of Pathology</i> , 144, pp:500-510 (Exhibit 24)
	Costa, T.E., et al., (1992), Chromosomal Position Of Rearranging Gene Segments Influences Allelic Exclusion In Transgenic Mice, <i>Proc. Natl. Acad. Sci.</i> , 89, pp:2205-2208 (Exhibit 25)

EXAMINER**DATE CONSIDERED**

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 1747/55672-A-PCT-US	Serial No. 09/750,410
		Applicant(s) Gloria C. Li et al.	
		Filing Date December 28, 2000	Group Art Unit

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Custer, R.P., et al., (1985), Severe Combined Immunodeficiency (SCID) In The Mouse, <i>Am. J. Pathol.</i> , 120, pp:464-477 (Exhibit 26)
	Dalbagni, G., et al., (1993), Molecular Genetic Alterations Of Chromosome 17 And P53 Nuclear Overexpression In Human Bladder Cancer, <i>Diagnostic Molecular Pathology</i> , 2(1), pp: 4-13 (Exhibit 27)
	Danska, J.S., et al., (1994), Rescue Of T-Cell Specific V(D)J Recombination In SCID Mice By DNA-Damaging Agents, <i>Science</i> , 266, pp:450-455 (Exhibit 28)
	Donehower, L., et al., (1992), Mice Deficient For P53 Are Developmentally Normal But Susceptible To Spontaneous Tumors, <i>Nature</i> , 356, pp:215-221 (Exhibit 29)
	Dvir, A. et al., (1992), Ku Autoantigen Is The Regulatory Component Of A Template-Associated Protein Kinase That Phosphorylates RNA Polymerase II, <i>Proc. Natl. Acad. Sci.</i> , 89, pp:11920-11924 (Exhibit 30)

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Gottlieb, T.M., et al., (1993), The DNA-Dependent Protein Kinase: Requirement For DNA Ends And Association With Ku Antigen, <i>Cell</i> , 72, pp: 131-142 (Exhibit 36)
	Gu, Y., et al., (1997), Growth Retardation And Leaky SCID Phenotype Of Ku70-Deficient Mice, <i>Immunity</i> , 7, pp: 653-665 (Exhibit 37)
	Hammarsten, O. et al., (1998), DNA-Dependent Protein Kinase: DNA Binding And Activation In The Absence Of Ku, <i>Proc. Natl. Acad. Sci.</i> , 95, pp:525-530 (Exhibit 38)
	Hendrickson, E.A. et al., (1991), A Link Between Double-Strand Break-Related Repair And V(D)J Recombination: The Scid Mutation, <i>Proc. Natl. Acad. Sci.</i> , 88, pp:4061-4065 (Exhibit 39)
	Hofstra, R., et al., (1996), A Homozygous Mutation In The Endothelin-3 Gene Associated With A Combined Waardenburg Type 2 And Hirschsprung Phenotype (Shah-Waardenburg Syndrome), <i>Nature Genetics</i> , 12, pp:445-447 (Exhibit 40)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Iliakis, G.E., et al., (1991), Detection Of DNA Double-Strand Breaks In Synchronous Cultures Of CHO Cells By Means Of Asymmetric Field Inversion Gel Electrophoresis, <i>Int. J. Radiat. Biol.</i> , 59(2), pp:321-341 (Exhibit 41)
	Jacks, T., 1994, Tumor Spectrum Analysis In P53-Mutant Mice, <i>Current Biology</i> , 4(1), pp: 1-7 (Exhibit 42)
	Jackson, S.P., et al., (1995), DNA Double-Strand Break Repair And V(D)J Recombination: Involvement Of DNA-PK, <i>TIBS</i> , 20, pp:412-415 (Exhibit 43)
	Jeggo, P.A., et al., Menage A Trois: Double Strand Break Repair, V(D)J Recombination And DNA-PK, (1995), <i>Bioessays</i> , 17 (11), pp:949-957 (Exhibit 44)
	Jhappan, C., et al., (1997), DNA-Pkcs: A T-Cell Tumour Suppressor Encoded At The Mouse Scid Locus, <i>Nature Genetics</i> , 17, pp:483-486 (Exhibit 45)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

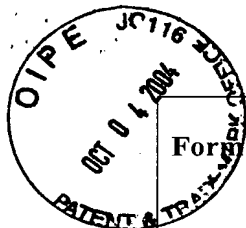
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Kim, D., et al., (1995), A Constitutive Heat Shock Element-Binding Factor Is Immunologically Identical To The Ku Autoantigen, <i>Journal Of Biological Chemistry</i> , 270, pp:15277-15284 (Exhibit 46)
	Kinzler, K.W., et al., (1996), Lessons From Hereditary Colorectal Cancer, <i>Cell</i> , 87, pp:159-170 (Exhibit 47)
	Kirchgessner, C.U., et al., (1995), DNA-Dependent Kinase (P350) As A Candidate Gene For The Murine SCID Defect, <i>Science</i> , 267, pp:1178-1183 (Exhibit 48)
	Lees-Miller, S.P., et al., (1995), Absence Of P350 Of DNA-Activated Protein From A Radiosensitive Human Cell Line, <i>Science</i> , 267, pp:1183-1185 (Exhibit 49)
	Lees-Miller, S.P., et al., (1996), The DNA-Dependent Protein Kinase, DNA-PK: 10 Years And No Ends In Sight, <i>Biochem. Cell Biol.</i> , 74, pp:503-512 (Exhibit 50)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

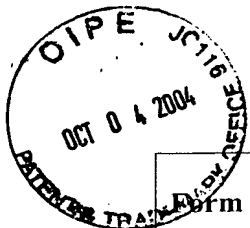
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Li, G.C., et al., (1998) Ku70: A Candidate Tumor Suppressor Gene For Murine T Cell Lymphoma, <i>Molecular Cell</i> , 2, pp:1-8 (Exhibit 51)
	Li, Z., et al., (1995) The XRCC4 Gene Encodes A Novel Protein Involved In DNA Double-Strand Break Repair And V(D)J Recombination, <i>Cell</i> , 83, pp:1079-1089 (Exhibit 52)
	Liang, F., et al., (1996), Ku80-Deficient Cells Exhibit Excess Degradation Of Extrachromosomal DNA, <i>Journal Of Biological Chemistry</i> , 271(24), pp:14405-14411 (Exhibit 53)
	Lieber, M.R., et al., (1998), The Defect In Murine Severe Combined Immune Deficiency: Joining Of Signal Sequences But Not Coding Segments In V(D)J Recombination, <i>Cell</i> , 55, pp: 7-16 (Exhibit 54)
	Linzer, D.I.H., et al., (1979), Characterization Of A 54K Dalton Cellular SV40 Tumor Antigen Present In SV40-Transformed Cells And Uninfected Embryonal Carcinoma Cells, <i>Cell</i> , 17, pp:43-52 (Exhibit 55)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 1747/55672-A-PCT-US		Serial No. 09/750,410		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant(s) Gloria C. Li et al.				
				Filing Date December 28, 2000		Group Art Unit		
U.S. PATENT DOCUMENTS								
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
FOREIGN PATENT DOCUMENTS								
Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation	
							Yes	No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
		Little, J.B., (1979), Quantitative Studies Of Radiation Transformation With The A31-11 Mouse BALB/3T3 Cell Line, <i>Cancer Research</i> , 39, pp:1474-1480 (Exhibit 56)						
		Loda, M., et al., (1997), Increased Proteasome-Dependent Degradation Of The Cyclin Dependent Kinase Inhibitor P27 In Aggressive Colorectal Carcinomas, <i>Nature Medicine</i> , 3(2), pp:231-234 (Exhibit 57)						
		Macpherson, I., (1973), Soft Agar Techniques. In Tissue Culture Methods And Applications, P.F. Kruse Jr. Eds. (New York Academic Press) Chapter 7, pp:276-280 (Exhibit 58)						
		Merlo, A., (1995), 5' Cpg Island Methylation Is Associated With Transcriptional Silencing Of The Tumour Suppressor P16/CDKN2/MTS1 In Human Cancers, <i>Nature Medicine</i> , (7), pp:686-692 (Exhibit 59)						
		Mimori, T., et al., (1981), Characterization Of A High Molecular Weight Acidic Nuclear Protein Recognized By Autoantibodies In Sera From Patients With Polymyositis-Scleroderma Overlap, <i>J. Clin. Invest.</i> , 68, pp:611-620 (Exhibit 60)						
EXAMINER				DATE CONSIDERED				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

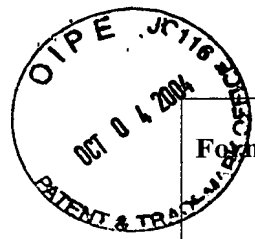
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Moen, C.J.A., et al., (1996), Different Genetic Susceptibility To Aberrant Crypts And Colon Adenomas In Mice, <i>Cancer Research</i> , 56, pp:2382-2386 (Exhibit 61)
	Nagasawa, H., et al., (1979) Effect Of Tumor Promoters, Protease Inhibitors, And Repair Processes On X-Ray-Induced Sister Chromatid Exchanges In Mouse Cells, <i>Proc. Natl. Acad. Sci.</i> , 76, pp:1943-1947 (Exhibit 62)
	Nagasawa, H., et al., (1991), Response Of X-Ray-Sensitive CHPO Mutant Cells (Xrs-6c) To Radiation, <i>Radiation Research</i> , 126, pp:280-288 (Exhibit 63)
	Nagasawa, H., et al., (1987), Spontaneous Transformation To Anchorage-Independent Growth Of A Xeroderma Pigmentosum Fibroblast Cell Strain, <i>The Society For Investigative Dermatoloy, Inc.</i> , 88, pp:149-153 (Exhibit 64)
	Nussenzweig, A., et al., (1996), Requirement For Ku80 In Growth And Immunoglobulin V(D)J Recombination, <i>Nature</i> , 382, pp:551-555 (Exhibit 65)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Orita, M., et al., (1989), Detection Of Polymorphisms Of Human DNA By Gel Electrophoresis As Single-Strand Conformation Polymorphisms, <i>Proc. Natl. Acad. Sci.</i> , 86, pp:2766-2770 (Exhibit 66)
	Ouyang, H., et al., (1997), Ku70 Is Required For DNA Repair But Not For T Cell Antigen Receptor Gene Recombination In Vivo, <i>J. Exp. Med.</i> , 186, pp:921-929 (Exhibit 67)
	Pan, Z.Q., et al., (1994), Phosphorylation Of The P34 Subunit Of Human Single-Stranded-DNA Binding Protein In Cyclin A-Activated G ₁ Extracts Is Catalyzed By Cdk-Cyclin A Complex And DNA-Dependent Protein Kinase, <i>Proc. Natl. Acad. Sci.</i> , 91, pp:8343-8347 (Exhibit 68)
	Pavan, W.J., et al., (1995), A High-Resolution Linkage Map Of The Lethal Spotting Locus: A Mouse Model For Hirschsprung Disease, <i>Mammalian Genome</i> , 6, pp:1-7 (Exhibit 69)
	Pergola, F., et al., (1993), V(D)J Recombination In Mammalian Cell Mutants Defective In DNA Double-Strand Break Repair, <i>Molecular And Cellular Biology</i> , 13(6), pp:3464-3471 (Exhibit 70)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Perry, P., et al., (1974), New Giemsa Method For The Differential Staining Of Sister Chromatids, <i>Nature</i> , 251, pp: 156-158 (Exhibit 71)
	Peterson, S.R. et al., (1997), Characterization Of Two DNA Double-Stranded Break Repair-Deficient Cell Lines That Express Inactive DNA-Dependent Protein Kinase Catalytic Subunits, 272 (15), pp:10227-10231 (Exhibit 72)
	Peterson, S.R., et al., (1995), Loss Of The Catalytic Subunit Of The DNA-Dependent Protein Kinase In DNA Double-Strand-Break-Repair Mutant Mammalian Cells, <i>Proc. Natl. Acad. Sci.</i> , 92, pp:3171-3174 (Exhibit 73)
	Peterson, S.R., et al., (1995), Stimulation Of The DNA-Dependent Protein Kinase By RNA Polymerase II Transcriptional Activator Proteins, <i>J. Bio. Chemistry</i> , 270(3), pp:1449-1454 (Exhibit 74)
	Pingault, V., et al., (1997), Human Homology And Candidate Genes For The Dominant Megacolon Locus, A Mouse Model Of Hirschsprung Disease, <i>Genomics</i> , 39, pp:86-89 (Exhibit 75)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No. 1747/55672-A-PCT-US	Serial No. 09/750,410
	Applicant(s) Gloria C. Li et al.	
	Filing Date December 28, 2000	Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Ponce-Castaneda, M., et al., (1995), P27 ^{kip1} : Chromosomal Mapping To 12p12-12p13.1 And Absence Of Mutations In Human Tumors, <i>Cancer Research</i> , 55, pp:1211-1214 (Exhibit 76)
	Porter, P.L., et al., (1997), Expression Of Cell-Cycle Regulators P27 ^{kip1} And Cyclin E, Alone And In Combination, Correlate With Survival In Young Breast Cancer Patients, <i>Nature Medicine</i> , 3(2), pp:222-225 (Exhibit 77)
	Purdie, C.A., et al., (1994), Tumour Incidence, Spectrum And Ploidy In Mice With A Large Deletion In The P53 Gene, <i>Oncogene</i> , 9, pp: 603-609 (Exhibit 78)
	Rathmell, W.K., et al., (1994), Involvement Of The Ku Autoantigen In The Cellular Response To DNA Double-Strand Breaks, <i>Proc. Natl. Acad. Sci.</i> , 91, pp:7623-7627 (Exhibit 79)
	Roncucci, L., et al., (1993), Cell Kinetic Evaluation Of Human Colonic Aberrant Crypts, <i>Cancer Research</i> , 53, pp:3726-3729 (Exhibit 80)

EXAMINER	DATE CONSIDERED
-----------------	------------------------

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Roth, D.B., et al., (1993), Characterization Of Broken DNA Molecules Associated With V(D)J Recombination, <i>Proc. Natl. Acad. Sci. USA</i> , 90, pp:10788-10792 (Exhibit 81)
	Roth, D.B., et al., (1995), How To Make Ends Meet, <i>Current Biology</i> , 5, pp:496-499 (Exhibit 82)
	Sanger, F., et al., (1977), DNA Sequencing With Chain-Terminating Inhibitors, <i>Proc. Natl. Acad. Sci.</i> , 74 (12), pp:5463-5467 (Exhibit 83)
	Sarnow, P. et al., (1982), Adenovirus Elb-58kd Tumor Antigen And Sv40 Large Tumor Antigen Are Physically Associated With The Same 54 Kd Cellular Protein In Transformed Cells, <i>Cell</i> , 28, pp:387-394 (Exhibit 84)
	Serrano, M., et al., (1996), Role Of The INK4a Locus In Tumor Suppression And Cell Mortality, <i>Cell</i> , 85, pp:27-37 (Exhibit 85)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Sipley, J.D., et al., (1995), Gene For The Catalytic Subunit Of The Human DNA-Activated Protein Kinase Maps To The Site Of The XRCC7 Gene On Chromosome 8, <i>Proc. Natl. Acad. Sci.</i> , 92, pp:7515-7519 (Exhibit 86)
	Smider, V., et al., (1994), Restoration Of X-Ray Resistance And V(D)J Recombination In Mutant Cells By Ku Cdna, <i>Science</i> , 266, pp:288-291 (Exhibit 87)
	Smith, C.A., et al., (1989), Antibodies To CD3/T-Cell Receptor Complex Induce Death By Apoptosis In Immature T Cells In Thymic Cultures, <i>Nature</i> , 337, pp:181-184 (Exhibit 88)
	Southard-Smith, E.M., et al., (1998), Sox10 Mutation Disrupts Neural Crest Development In Dom Hirschsprung Mouse Model, <i>Nature Genetics</i> , 18, pp:60-64 (Exhibit 89)
	Strasser, A., et al., (1994), Bcl-2 Expression Promotes B-But Not T-Lymphoid Development In Scid Mice, <i>Nature</i> , 368, pp:457-460 (Exhibit 90)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.
1747/55672-A-PCT-
US

Serial No.
09/750,410

Applicant(s)
Gloria C. Li et al.

Filing Date
December 28, 2000

Group Art Unit

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Suwa, A., et al., (1994), Dna-Dependent Protein Kinase (Ku Protein-P350 Complex) Assembles On Double-Stranded Dna, <i>Proc. Natl. Acad. Sci. Usa</i> , 91, pp:6904-6908 (Exhibit 91)
	Taccioli, G., et al., (1993), Impairment Of V(D)J Recombination In Double-Strand Break Repair Mutants, <i>Science</i> , 260, pp:207-210 (Exhibit 92)
	Taccioli, G., et al., (1994), Ku80: Product Of The Xrcc5 Gene And Its Role In Dna Repair And V(D)J Recombination, <i>Science</i> , Vol. 265, pp: 1442-1445 (Exhibit 93)
	Taccioli, G., et al., (1998), Targeted Disruption Of The Catalytic Subunit Of The Dna-Pk Gene In Mice Confers Severe Combined Immunodeficiency And Radiosensitivity, <i>Immunity</i> , 9, pp:355-366 (Exhibit 94)
	Takiguchi, Y., et al., (1996), Genomic Structure And Chromosomal Assignment Of The Mouse Ku70 Gene, <i>Genomics</i> , 35, pp:129-135 (Exhibit 95)

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
1747/55672-A-PCT-
USSerial No.
09/750,410INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicant(s)
Gloria C. Li et al.Filing Date
December 28, 2000

Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

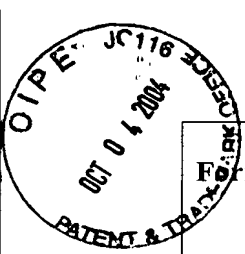
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Thompson, L.H., (1995), Nomenclature Of Human Genes Involved In Ionizing Radiation Sensitivity, <i>Mutation Research</i> , 337, pp:131-134 (Exhibit 96)
	Tsukada, T., et al., (1993), Enhanced Proliferative Potential In Culture Of Cells From P53-Deficient Mice, <i>Oncogene</i> , 8, pp:3313-3323 (Exhibit 97)
	Van Zant, G., et al., (1983), The Effect Of Hyperthermia On Hemopoietic Progenitor Cells Of The Mouse, <i>Radiation Research</i> , 95, pp:142-149 (Exhibit 98)
	Vogelstein, B., et al., (1993), The Multistep Nature Of Cancer, <i>Tig</i> , 9, pp:138-141, (Exhibit 99)
	Weaver, D.T., et al., (1995), What To Do At An End: Dna Double-Strand-Break Repair, <i>Tig</i> , 11, pp:388-392 (Exhibit 100)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No. 1747/55672-A-PCT-US	Serial No. 09/750,410
	Applicant(s) Gloria C. Li et al.	
	Filing Date December 28, 2000	Group Art Unit

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Werness, B.A., et al., (1989), Association Of Human Papillomavirus Types 16 And 18 E6 Proteins With P53, <i>Science</i> , 248, pp:76-79 (Exhibit 101)
	Whyte, P., et al., (1988), Association Between An Oncogene And An Anti-Oncogene: The Adenovirus E1A Proteins Bind To The Retinoblastoma Gene Product, <i>Nature</i> , 334 (14), pp:124-129 (Exhibit 102)
	Yaneva, M., et al., (1997), Interaction Of DNA-Dependent Protein Kinase With DNA And With Ku: Biochemical And Atomic-Force Microscopy Studies, <i>The EMBO Journal</i> , 16, pp:5098-5112 (Exhibit 103)
	Yumoto, Y., et al., (1998), High Mobility Group Proteins 1 And 2 Can Function As DNA-Binding Regulatory Components For DNA-Dependent Protein Kinase <i>In Vitro</i> , <i>J. Biochem.</i> , 124, pp:519-527 (Exhibit 104)
	Zhu, C., et al., (1996), Ku86-Deficient Mice Exhibit Severe Combined Immunodeficiency And Defective Processing Of V(D)J Recombination Intermediates, <i>Cell</i> , Vol. 86, pp:379-389 (Exhibit 105)

EXAMINER	DATE CONSIDERED
-----------------	------------------------

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.